

Friendly Notes

Looking Back

The centimeter (cm), meter (m), and kilometer (km) are metric units of length.

The yard (yd) and inch (in.) are other units of length.

$$1 \text{ m} = 100 \text{ cm}$$

$$1 \text{ yd} = 3 \text{ ft}$$

$$1 \text{ km} = 1,000 \text{ m}$$

$$1 \text{ ft} = 12 \text{ in.}$$

1. Write 7 m 87 cm in centimeters.

$$7 \text{ m } 87 \text{ cm} = 700 \text{ cm} + 87 \text{ cm}$$

= 787 cm

$$7 \text{ m} = 7 \times 100 \text{ cm}$$

= 700 cm

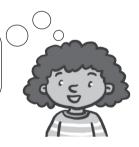


2. Write 654 cm in meters and centimeters.

$$654 \text{ cm} = 6 \text{ m} 54 \text{ cm}$$

$$654 \text{ cm} = 600 \text{ cm} + 54 \text{ cm}$$

$$600 \text{ cm} = 6 \text{ m}$$



3. Write 3 km 899 m in meters.

$$3 \text{ km } 899 \text{ m} = 3,000 \text{ m} + 899 \text{ m}$$

= 3,899 m

$$3 \text{km} = 3 \times 1,000 \text{ m}$$

= 3,000 m



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$$5,231 \text{ m} = 5 \text{ km } 231 \text{ m}$$

$$5,231 \text{ m} = 5,000 \text{ m} + 231 \text{ m}$$



5. Write 11 yd in feet.

$$11 \text{ yd} = 11 \times 3 \text{ ft}$$

= 33 ft

$$1 \text{ yd} = 3 \text{ ft}$$

 $5,000 \text{ m} = 5 \text{ km}$



6. Write 14 yd 6 ft in feet. 14 yd 6 ft = 42 ft + 6 ft

$$14 \text{ yd} = 14 \times 3 \text{ ft}$$

= 42 ft



7. Write 146 ft in yards. 146 ft = 48 yd 2 ft

8. Write 4 ft 7 in. in inches. 4 ft 7 in. = 48 in. + 7 in.= 55 in.

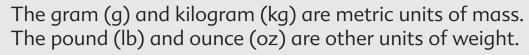
1 ft = 12 in.
4 ft =
$$4 \times 12$$
 in.

= 48 in.



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$$1 \text{ kg} = 1,000 \text{ g}$$

$$1 \text{ lb} = 16 \text{ oz}$$

9. Write 5 kg 56 g in grams.

$$5 \text{ kg } 56 \text{ g} = 5,000 \text{ g} + 56 \text{ g}$$

= 5,056 g

$$1 \text{ kg} = 1,000 \text{ g}$$

 $5 \text{ kg} = 5 \times 1,000 \text{ g}$
 $= 5,000 \text{ g}$



10. Write 1,001 g in kilograms.

$$1,001 g = 1 kg 1 g$$

$$1,001 g = 1,000 g + 1 g$$

 $1,000 g = 1 kg$



11. Write 4 lb 10 oz in ounce.

4 lb 10 oz =
$$64$$
 oz + 10 oz = 74 oz

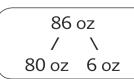
1 lb = 16 oz
4 lb =
$$4 \times 16$$
 oz
= 64 oz



12. Write 86 oz in pounds and ounce.

$$80 \text{ oz} = 5 \text{ lb}$$

$$86 \text{ oz} = 5 \text{ lb } 6 \text{ oz}$$







$$1 \text{ year} = 12 \text{ months}$$

$$1 \text{ hour} = 60 \text{ minutes}$$

$$1 \text{ week} = 7 \text{ days}$$

$$1 \text{ minute} = 60 \text{ seconds}$$

$$1 \, \text{day} = 24 \, \text{hours}$$

13. Write 4 years in months.

$$4 \text{ years} = 4 \times 12$$

$$=48$$
 months

14. Write 3 weeks in days.

$$3 \text{ weeks} = 3 \times 7$$

$$= 21 \, days$$

15. Write 9 minutes in seconds.

9 minutes =
$$9 \times 60$$

The milliliter (ml) and liter (L) are metric units of capacity. The gallon (gal), quart (qt), pint (pt), and cup (c) are other units of capacity.

$$1 L = 1,000 ml$$

$$1 \text{ at} = 2 \text{ pt}$$

$$1 \text{ gal} = 4 \text{ qt}$$

$$1 pt = 2c$$

16. Write 8 L 552 ml in milliliters.

$$8 L 552 ml = 8,000 ml + 552 ml$$

$$= 8,552 \text{ ml}$$

$$1 L = 1,000 ml$$

$$8 L = 8 \times 1,000 ml$$

$$= 8,000 \text{ ml}$$





Adding and Subtracting Measures

$$= 4 \text{ kg } 200 \text{ g}$$

$$1 \text{ kg} + 2 \text{ kg} = 3 \text{ kg}$$

 $300 \text{ g} + 900 \text{ g} = 1 \text{ kg} 200 \text{ g}$
 $3 \text{ kg} + 1 \text{ kg} 200 \text{ g} = 4 \text{ kg} 200 \text{ g}$



$$= 3 \text{ gal } 3 \text{ qt}$$

$$1 \text{ gal} = 4 \text{ qt}$$

9 gal 2 qt =
$$8$$
 gal 6 qt



3. What is the total capacity of 1 L 45 ml and 8 L 672 ml?

$$1 L 45 ml$$
 \longrightarrow $9 L 45 ml$ \longrightarrow $9 L 717 ml$

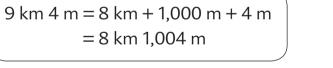
$$1 L 45 ml + 8 L 672 ml = 9 L 717 ml$$



4. What is the difference in length between 9 km 4 m and 2 km 600 m?

$$9 \text{ km } 4 \text{ m} = 8 \text{ km} + 1,000 \text{ m} + 4 \text{ m}$$

= $8 \text{ km} + 1,000 \text{ m}$



$$8 \text{ km } 1,004 \text{ m} \xrightarrow{\text{--} 2 \text{ km}} 6 \text{ km } 1,004 \text{ m} \xrightarrow{\text{--} 3} 6 \text{ km } 404 \text{ m}$$



9 km 4 m - 2 km 600 m = 6 km 404 m

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Multiplying and Dividing Measures

1.
$$2 \text{ kg } 200 \text{ g} \times 2 = 4 \text{ kg } 400 \text{ g}$$

2.
$$6 \text{ m } 25 \text{ cm} \div 5 = 1 \text{ m } 25 \text{ cm}$$

$$6 \text{ m} \div 5 = 1 \text{ m remainder } 1 \text{ m}$$

 $1 \text{ m} = 100 \text{ cm}$
 $100 \text{ cm} + 25 \text{ cm} = 125 \text{ cm}$
 $125 \text{ cm} \div 5 = 25 \text{ cm}$



Measures and Fractions

1.
$$\frac{1}{2}$$
 km = $\frac{1}{2}$ × 1,000
= 500 m

2.
$$1\frac{1}{4}$$
 lb = 1 lb + $\frac{1}{4}$ lb
= 16 oz + $\frac{1}{4}$ × 16
= 16 oz + 4 oz
= 20 oz

3.
$$2\frac{3}{4}$$
 hours = 2 hours + $\frac{3}{4}$ hours
= 120 minutes + $\frac{3}{4}$ × 60
= 120 minutes + 45 minutes
= 165 minutes

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